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1996

## Nebraska Summary: S253 New Holland 8560

Nebraska Tractor Test Laboratory

University of Nebraska-Lincoln, [tractortestlab@unl.edu](mailto:tractortestlab@unl.edu)

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# SUMMARY OF OECD TEST 1727—NEBRASKA SUMMARY 253

## NEW HOLLAND 8560 RANGE COMMAND DIESEL

### 18 SPEED

#### POWER TAKE-OFF PERFORMANCE

| Power<br>HP<br>(kW)                             | Crank<br>shaft<br>speed<br>rpm | Gal/hr<br>(l/h) | lb/hp.hr<br>(kg/kW.h) | Hp.hr/gal<br>(kW.h/l) | Mean Atmospheric<br>Conditions |
|---|--------------------------------|-----------------|-----------------------|-----------------------|--------------------------------|
| <b>MAXIMUM POWER AND FUEL CONSUMPTION</b>       |                                |                 |                       |                       |                                |
| <b>Rated Engine Speed—(PTO speed—1085 rpm)</b>  |                                |                 |                       |                       |                                |
| 143.6<br>(107.1)                                | 2300                           | 9.08<br>(34.36) | 0.442<br>(0.269)      | 15.82<br>(3.12)       |                                |
| <b>Standard Power Take-off Speed (1000 rpm)</b> |                                |                 |                       |                       |                                |
| 146.7<br>(109.4)                                | 2121                           | 8.69<br>(32.89) | 0.414<br>(0.252)      | 16.88<br>(3.33)       |                                |
| <b>Maximum Power (2 hours)</b>                  |                                |                 |                       |                       |                                |
| 149.4<br>(111.4)                                | 1970                           | 8.45<br>(31.99) | 0.396<br>(0.241)      | 17.68<br>(3.48)       |                                |

#### VARYING POWER AND FUEL CONSUMPTION

|                  |      |                 |                  |                 |                     |
|------------------|------|-----------------|------------------|-----------------|---------------------|
| 143.6<br>(107.1) | 2300 | 9.08<br>(34.36) | 0.442<br>(0.269) | 15.82<br>(3.12) | Air temperature     |
| 128.1<br>(95.5)  | 2414 | 8.58<br>(32.47) | 0.469<br>(0.285) | 14.93<br>(2.94) | 75°F (24°C)         |
| 96.4<br>(71.9)   | 2425 | 6.85<br>(25.92) | 0.498<br>(0.303) | 14.08<br>(2.77) | Relative humidity   |
| 64.5<br>(48.1)   | 2441 | 5.33<br>(20.17) | 0.578<br>(0.352) | 12.11<br>(2.39) | 28%                 |
| 32.6<br>(24.3)   | 2460 | 3.88<br>(14.69) | 0.833<br>(0.507) | 8.40<br>(1.65)  | Barometer           |
| —                | 2491 | 2.57<br>(9.71)  | —                | —               | 29.7"Hg (100.5 kPa) |

Maximum Torque 480 lb.-ft. (652 Nm) at 1401 rpm

Maximum Torque Rise 46.6%

Torque rise at 1800 rpm 29%

#### DRAWBAR PERFORMANCE (Unballasted—Front Drive Engaged) FUEL CONSUMPTION CHARACTERISTICS

| Power<br>Hp<br>(kW)                                       | Drawbar<br>pull<br>lbs<br>(kN) | Speed<br>mph<br>(km/h) | Crank-<br>shaft<br>speed<br>rpm | Slip<br>% | Fuel Consumption<br>lb/hp.hr<br>(kg/kW.h) | Hp.hr/gal<br>(kW.h/l) | Temp. °F (°C)<br>cool-<br>ing<br>med | Air<br>dry<br>bulb | Barom.<br>inch<br>Hg<br>(kPa) |
|---|--------------------------------|------------------------|---------------------------------|-----------|---|-----------------------|--------------------------------------|--------------------|-------------------------------|
| <b>Maximum Power—9th (3B) Gear</b>                        |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 120.0<br>(89.5)   | 10860<br>(48.3)                | 4.14<br>(6.67)         | 2300                            | 7.6       | 0.523<br>(0.318)                          | 13.40<br>(2.64)       | 189<br>(87)                          | 39<br>(4)          | 29.6<br>(100.4)               |
| <b>75% of Pull at Maximum Power—9th (3B) Gear</b>         |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 96.4<br>(71.9)  | 8085<br>(36.0)                 | 4.47<br>(7.20)         | 2416                            | 5.0       | 0.510<br>(0.310)                          | 13.72<br>(2.70)       | 189<br>(87)                          | 39<br>(4)          | 29.6<br>(100.4)               |
| <b>50% of Pull at Maximum Power—9th (3B) Gear</b>         |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 65.4<br>(48.8)  | 5345<br>(23.8)                 | 4.59<br>(7.39)         | 2436                            | 3.3       | 0.689<br>(0.419)                          | 10.16<br>(2.00)       | 189<br>(87)                          | 39<br>(4)          | 29.6<br>(100.4)               |
| <b>75% of Pull at Reduced Engine Speed—10th (4B) Gear</b> |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 95.3<br>(71.1)  | 7995<br>(35.6)                 | 4.47<br>(7.20)         | 2005                            | 4.8       | 0.483<br>(0.294)                          | 14.51<br>(2.86)       | 187<br>(86)                          | 39<br>(4)          | 29.6<br>(100.2)               |
| <b>50% of Pull at Reduced Engine Speed—10th (4B) Gear</b> |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 65.6<br>(48.9)  | 5365<br>(23.9)                 | 4.59<br>(7.38)         | 2025                            | 3.3       | 0.434<br>(0.264)                          | 16.14<br>(3.18)       | 185<br>(85)                          | 39<br>(4)          | 29.6<br>(100.2)               |

**Location of Test:** Silsoe Research Institute, Wrest Park, Silsoe, Bedford, United Kingdom MK45 4HS

**Dates of Test:** November 1996-March 1997

**Manufacturer:** New Holland UK Ltd., Basildon, Essex, United Kingdom

**FUEL and OIL:** Fuel No. 2 Diesel Cetane No. NA Specific gravity converted to 60°/60° F (15°/15°C) 0.8407 Fuel weight 7.00 lbs/gal (0.839 kg/l) Oil SAE 10W-30 API service classification CF-4 Oil consumption for 10 hours NA Transmission and hydraulic lubricant SAE 10W-30 Front axle lubricant SAE 10W-30

**ENGINE:** Make New Holland Diesel Type six cylinder vertical with turbocharger Serial No. WM472992 Crankshaft lengthwise Rated engine speed 2300 Bore and stroke 4.40" × 5.00" (111.8 mm × 127.0 mm) Compression ratio 17.5 to 1 Displacement 456 cu in (7480 ml) Starting system 12 volt Lubrication pressure Air cleaner two paper elements Oil filter one full flow cartridge Oil cooler engine coolant heat exchanger for crankcase oil, radiator for transmission and hydraulic fluid Fuel filter two paper elements and water separator Muffler underhood Exhaust vertical Cooling medium temperature control thermostat and variable speed fan

**CHASSIS:** Type front wheel assist Serial No. BX00015 Tread width rear 64.2" (1630 mm) to 87.9" (2232 mm) front 64.6" (1642 mm) to 93.9" (2359 mm) Wheelbase 107.2" (2723 mm) Hydraulic control system direct engine drive Transmission selective gear fixed ratio with partial (6) range operator controlled powershift Nominal travel speeds mph (km/h) first 1.32 (2.12) second 1.58 (2.55) third 1.90 (3.06) fourth 2.29 (3.68) fifth 2.75 (4.43) sixth 3.06 (4.92) seventh 3.31 (5.33) eighth 3.68 (5.92) ninth 4.42 (7.11) tenth 5.31 (8.55) eleventh 6.39 (10.29) twelfth 7.69 (12.37) thirteenth 8.68 (13.97) fourteenth 10.43 (16.79) fifteenth 12.53 (20.17) sixteenth 15.07 (24.26) seventeenth 18.13 (29.18) eighteenth 21.80 (35.09) reverse 2.57 (4.14), 3.09 (4.97) 3.71 (5.97), 4.46 (7.18), 5.37 (8.64), 6.46 (10.39) Clutch multiple wet disc electro-hydraulically operated by foot pedal Brakes single wet disc hydraulically operated by two foot pedals which can be locked together Steering hydrostatic Power take-off 540 rpm at 1971 engine rpm and 1000 rpm at 2121 engine rpm Unladen tractor mass 12510 lb (5674 kg)

**DRAWBAR PERFORMANCE**  
**(Unballasted—Front Drive Engaged)**  
**MAXIMUM POWER IN SELECTED GEARS**

| Power<br>Hp<br>(kW) | Drawbar<br>pull<br>lbs<br>(kN) | Speed<br>mph<br>(km/h) | Crank-<br>shaft<br>speed<br>rpm | Slip<br>% | Fuel Consumption<br>lb/hp.hr<br>(kg/kW.h) | Hp.hr/gal<br>(kW.h/l) | Temp. °F (°C)<br>cool-<br>ing<br>med | Air<br>dry<br>bulb | Barom.<br>inch<br>Hg<br>(kPa) |
|---------------------|--------------------------------|------------------------|---------------------------------|-----------|---|-----------------------|--------------------------------------|--------------------|-------------------------------|
| 5th (5A) Gear       |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 85.3<br>(63.6)      | 13050<br>(58.0)                | 2.45<br>(3.94)         | 2409                            | 15.1      | 0.608<br>(0.370)                          | 11.52<br>(2.27)       | 189<br>(87)                          | 39<br>(4)          | 29.6<br>(100.2)               |
| 6th (1B) Gear       |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 93.5<br>(69.7)      | 12610<br>(56.1)                | 2.78<br>(4.47)         | 2413                            | 13.5      | 0.624<br>(0.380)                          | 11.22<br>(2.21)       | 189<br>(87)                          | 41<br>(5)          | 29.6<br>(100.4)               |
| 7th (6A) Gear       |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 103.1<br>(76.9)     | 12725<br>(56.6)                | 3.04<br>(4.89)         | 2378                            | 12.0      | 0.582<br>(0.354)                          | 12.03<br>(2.37)       | 190<br>(88)                          | 45<br>(7)          | 29.9<br>(101.4)               |
| 8th (2B) Gear       |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 110.8<br>(82.6)     | 11870<br>(52.8)                | 3.50<br>(5.63)         | 2397                            | 10.0      | 0.568<br>(0.345)                          | 12.33<br>(2.43)       | 189<br>(87)                          | 41<br>(5)          | 29.6<br>(100.4)               |
| 9th (3B) Gear       |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 120.3<br>(89.7)     | 11510<br>(51.2)                | 3.92<br>(6.31)         | 2206                            | 8.8       | 0.520<br>(0.317)                          | 13.45<br>(2.65)       | 189<br>(87)                          | 39<br>(4)          | 29.6<br>(100.4)               |
| 10th (4B) Gear      |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 123.3<br>(91.9)     | 10855<br>(48.3)                | 4.26<br>(6.85)         | 1961                            | 7.3       | 0.481<br>(0.292)                          | 14.57<br>(2.87)       | 187<br>(86)                          | 39<br>(4)          | 29.6<br>(100.4)               |
| 11th (5B) Gear      |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 125.7<br>(93.7)     | 8965<br>(39.9)                 | 5.76<br>(8.46)         | 1973                            | 5.5       | 0.469<br>(0.285)                          | 14.92<br>(2.94)       | 187<br>(86)                          | 43<br>(6)          | 29.6<br>(100.4)               |
| 12th (6B) Gear      |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 123.1<br>(91.8)     | 7220<br>(32.1)                 | 6.39<br>(10.29)        | 1977                            | 4.8       | 0.479<br>(0.291)                          | 14.62<br>(2.88)       | 189<br>(87)                          | 41<br>(5)          | 29.6<br>(100.4)               |
| 13th (1C) Gear      |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 128.7<br>(96.0)     | 6675<br>(29.7)                 | 7.23<br>(11.64)        | 1970                            | 4.0       | 0.459<br>(0.279)                          | 15.28<br>(3.01)       | 189<br>(87)                          | 41<br>(5)          | 29.6<br>(100.2)               |
| 14th (2C) Gear      |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 125.7<br>(93.7)     | 5375<br>(23.9)                 | 8.77<br>(14.11)        | 1972                            | 3.3       | 0.465<br>(0.283)                          | 15.07<br>(2.97)       | 187<br>(86)                          | 41<br>(5)          | 29.6<br>(100.2)               |
| 15th (3C) Gear      |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 122.8<br>(91.6)     | 4350<br>(19.3)                 | 10.59<br>(17.04)       | 1973                            | 2.9       | 0.471<br>(0.286)                          | 14.87<br>(2.93)       | 187<br>(86)                          | 41<br>(5)          | 29.6<br>(100.2)               |

**REPAIRS AND ADJUSTMENTS:** No repairs or adjustments

**REMARKS:** All test results were determined from observed data obtained in accordance with official OECD test procedures. The performance figures on this summary were taken from a test conducted under the OECD Code II restricted standard test code procedure.

We, the undersigned, certify that this is a true summary of data from OECD Report No. **1727**, Nebraska Summary 253, June 12, 1998.

LEONARD L. BASHFORD  
Director

M.F. KOCHER  
G.J. HOFFMAN  
R.D. GRISSO  
Board of Tractor Test Engineers

|                                     | Front Wheel Drive   |                  |
|-------------------------------------|---------------------|------------------|
|                                     | Disengaged<br>dB(A) | Engaged<br>dB(A) |
| <b>TRACTOR SOUND LEVEL WITH CAB</b> |                     |                  |
| Maximum Sound Level in 5th(5A)Gear  | 76.0                | 76.0             |
| Bystander in 18th(6C)Gear           | 84.0                | —                |

**TIRES AND WEIGHT**

**Rear Tires**—No., size, ply & psi (kPa)  
**Front Tires**—No., size, ply & psi (kPa)  
**Height of Drawbar**  
**Static Weight with operator**—Rear  
—Front  
—Total

**Tested Without Ballast**

Two 18.4R38; \*\*, 15 (103)  
Two 14.9R28; \*\*, 17 (117)  
17.7 in (450 mm)  
7610 lb (3451 kg)  
5065 lb (2298 kg)  
12675 lb (5749 kg)

**DRAWBAR PERFORMANCE**  
**(Unballasted—Front Drive Disengaged)**  
**FUEL CONSUMPTION CHARACTERISTICS**

| Power<br>Hp<br>(kW)                                       | Drawbar<br>pull<br>lbs<br>(kN) | Speed<br>mph<br>(km/h) | Crank-<br>shaft<br>speed<br>rpm | Slip<br>% | Fuel Consumption<br>lb/hp.hr<br>(kg/kW.h) | Hp.hr/gal<br>(kW.h/l) | Temp. °F (°C)<br>cool-<br>ing<br>med | Air<br>dry<br>bulb | Barom.<br>inch<br>Hg<br>(kPa) |
|---|--------------------------------|------------------------|---------------------------------|-----------|---|-----------------------|--------------------------------------|--------------------|-------------------------------|
| <b>Maximum Power—14th (2C) Gear</b>                       |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 121.6<br>(90.7)   | 4485<br>(20.0)                 | 10.17<br>(16.37)       | 2304                            | 3.0       | 0.517<br>(0.315)                          | 13.53<br>(2.67)       | 189<br>(87)                          | 39<br>(4)          | 30.2<br>(102.2)               |
| <b>75% of Pull at Maximum Power—14th (2C) Gear</b>        |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 95.5<br>(71.2)  | 3335<br>(14.8)                 | 10.74<br>(17.28)       | 2418                            | 2.4       | 0.633<br>(0.385)                          | 11.07<br>(2.18)       | 189<br>(87)                          | 39<br>(4)          | 30.2<br>(102.2)               |
| <b>50% of Pull at Maximum Power—14th (2C) Gear</b>        |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 65.6<br>(48.9)  | 2260<br>(10.0)                 | 10.89<br>(17.53)       | 2436                            | 1.7       | 0.697<br>(0.424)                          | 10.05<br>(1.98)       | 189<br>(87)                          | 39<br>(4)          | 30.2<br>(102.2)               |
| <b>75% of Pull at Reduced Engine Speed—15th (3C) Gear</b> |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 94.8<br>(70.7)  | 3325<br>(14.8)                 | 10.69<br>(17.21)       | 2005                            | 2.4       | 0.494<br>(0.301)                          | 14.16<br>(2.79)       | 187<br>(86)                          | 39<br>(4)          | 30.2<br>(102.2)               |
| <b>50% of Pull at Reduced Engine Speed—15th (3C) Gear</b> |                                |                        |                                 |           |   |                       |                                      |                    |                               |
| 64.7<br>(48.2)  | 2230<br>(9.9)                  | 10.88<br>(17.51)       | 2025                            | 1.6       | 0.574<br>(0.349)                          | 12.19<br>(2.40)       | 187<br>(86)                          | 39<br>(4)          | 30.2<br>(102.2)               |

**MAXIMUM POWER IN SELECTED GEARS**

|                       |                 |                  |      |      |                  |                 |             |           |                 |
|-----------------------|-----------------|------------------|------|------|------------------|-----------------|-------------|-----------|-----------------|
| <b>6th (1B) Gear</b>  |                 |                  |      |      |                  |                 |             |           |                 |
| 77.8<br>(58.0)        | 10295<br>(45.8) | 2.83<br>(4.56)   | 2422 | 12.2 | 0.613<br>(0.373) | 11.42<br>(2.25) | 189<br>(87) | 41<br>(5) | 30.1<br>(101.8) |
| <b>7th (6A) Gear</b>  |                 |                  |      |      |                  |                 |             |           |                 |
| 84.5<br>(63.0)        | 10245<br>(45.6) | 3.09<br>(4.98)   | 2415 | 11.2 | 0.624<br>(0.380) | 11.22<br>(2.21) | 189<br>(87) | 43<br>(6) | 30.1<br>(101.9) |
| <b>8th (2B) Gear</b>  |                 |                  |      |      |                  |                 |             |           |                 |
| 92.9<br>(69.3)        | 9910<br>(44.1)  | 3.52<br>(5.66)   | 2415 | 9.2  | 0.552<br>(0.336) | 12.69<br>(2.50) | 189<br>(87) | 41<br>(5) | 30.1<br>(101.9) |
| <b>9th (3B) Gear</b>  |                 |                  |      |      |                  |                 |             |           |                 |
| 109.8<br>(81.9)       | 10010<br>(44.5) | 4.11<br>(6.62)   | 2397 | 10.9 | 0.562<br>(0.342) | 12.46<br>(2.46) | 190<br>(88) | 43<br>(6) | 30.1<br>(101.9) |
| <b>10th (4B) Gear</b> |                 |                  |      |      |                  |                 |             |           |                 |
| 119.1<br>(88.8)       | 9645<br>(42.9)  | 4.63<br>(7.45)   | 2174 | 8.0  | 0.512<br>(0.311) | 13.68<br>(2.69) | 189<br>(87) | 45<br>(7) | 30.1<br>(101.9) |
| <b>11th (5B) Gear</b> |                 |                  |      |      |                  |                 |             |           |                 |
| 122.3<br>(91.2)       | 9015<br>(40.1)  | 5.09<br>(8.19)   | 1972 | 7.4  | 0.484<br>(0.294) | 14.47<br>(2.85) | 189<br>(87) | 36<br>(2) | 30.2<br>(102.3) |
| <b>12th (6B) Gear</b> |                 |                  |      |      |                  |                 |             |           |                 |
| 123.5<br>(92.1)       | 7380<br>(32.8)  | 6.28<br>(10.10)  | 1976 | 5.1  | 0.479<br>(0.291) | 14.62<br>(2.88) | 189<br>(87) | 36<br>(2) | 30.2<br>(102.3) |
| <b>13th (1C) Gear</b> |                 |                  |      |      |                  |                 |             |           |                 |
| 129.4<br>(96.5)       | 6800<br>(30.2)  | 7.14<br>(11.49)  | 1976 | 4.5  | 0.474<br>(0.289) | 14.77<br>(2.91) | 189<br>(87) | 37<br>(3) | 30.2<br>(102.2) |
| <b>14th (2C) Gear</b> |                 |                  |      |      |                  |                 |             |           |                 |
| 129.7<br>(96.7)       | 5630<br>(25.0)  | 8.64<br>(13.91)  | 1972 | 3.6  | 0.461<br>(0.280) | 15.19<br>(2.99) | 189<br>(87) | 39<br>(4) | 30.2<br>(102.2) |
| <b>15th (3C) Gear</b> |                 |                  |      |      |                  |                 |             |           |                 |
| 126.7<br>(94.5)       | 4530<br>(20.1)  | 10.48<br>(16.87) | 1982 | 3.1  | 0.471<br>(0.286) | 14.87<br>(2.93) | 189<br>(87) | 39<br>(4) | 30.2<br>(102.2) |

### THREE POINT HITCH PERFORMANCE (OECD Static Test)

CATEGORY: II

Quick Attach: None

Maximum Force Exerted Through Whole Range: 7306 lbs (32.5 kN)

i) Opening pressure of relief valve: NA  
Sustained pressure of the open relief valve: 2990 psi (206 bar)

ii) Pump delivery rate at minimum pressure and rated engine speed: 26.0 GPM (98.4 l/min)

iii) Pump delivery rate at maximum  
hydraulic power: 25.0 GPM (94.6 l/min)  
Delivery pressure: 2550 psi (176 bar)  
Power: 37.2 HP (27.7 kW)

### THREE POINT HITCH PERFORMANCE (SAE Static Test)

Observed Maximum Pressure: 2715 psi (187 bar)

Location: Remote outlet

Hydraulic oil temperature: 150 °F (65°C)

Location: pump inlet

Category: II

Quick attach: none

#### SAE Test—System pressure 2440 psi (168 Bar)

| Hitch point distance to ground level in. (mm) | 7.4 (189) | 11.7 (296) | 21.3 (540) | 32.1 (815) | 37.8 (960) |
|---|-----------|------------|------------|------------|------------|
| Lift force on frame lb                        | 11412     | 11915      | 12320      | 12185      | 11375      |
| " " " " (kN)                                  | (50.7)    | (53.0)     | (54.8)     | (54.2)     | (50.6)     |

#### ASAE Test—System pressure 2715 psi (187 Bar)

| Hitch point distance to ground level in. (mm) | 7.4 (189) | 11.7 (296) | 21.3 (540) | 32.1 (815) | 37.8 (960) |
|---|-----------|------------|------------|------------|------------|
| Lift force on frame lb                        | 12679     | 13264      | 13713      | 13556      | 12657      |
| " " " " (kN)                                  | (56.4)    | (59.0)     | (61.0)     | (60.3)     | (56.3)     |

inch

|   |      |
|---|------|
| A | 29.7 |
| B | 9.1  |
| C | 15.6 |
| D | 14.3 |
| E | 8.2  |
| F | 9.8  |
| G | 32.3 |
| H | 0.7  |
| I | 17.9 |
| J | 22.5 |
| K | 17.1 |
| L | 47.0 |
| M | 23.3 |
| N | 38.3 |
| O | 7.6  |
| P | 46.5 |
| Q | 36.2 |
| R | 28.3 |

### HITCH DIMENSIONS AS TESTED

